

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/039405 A2**

(51) International Patent Classification<sup>7</sup>: **A61B 5/00**

(21) International Application Number:  
PCT/GB2004/004428

(22) International Filing Date: 19 October 2004 (19.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0324450.6 20 October 2003 (20.10.2003) GB

(71) Applicant (for all designated States except US): **ALERTIS MEDICAL AS** [NO/NO]; Parkveien 55, N-0256 Oslo (NO).

(71) Applicant (for LC only): **DIXON, Philip, Matthew** [GB/GB]; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **OMTVEIT, Tore** [NO/NO]; Otto Ruges vei 5d, N-1359 Eiksmarka (NO).

(74) Agent: **Frank B. Dehn & Co.**; 179 Queen Victoria Street, London EC4V 4EL (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

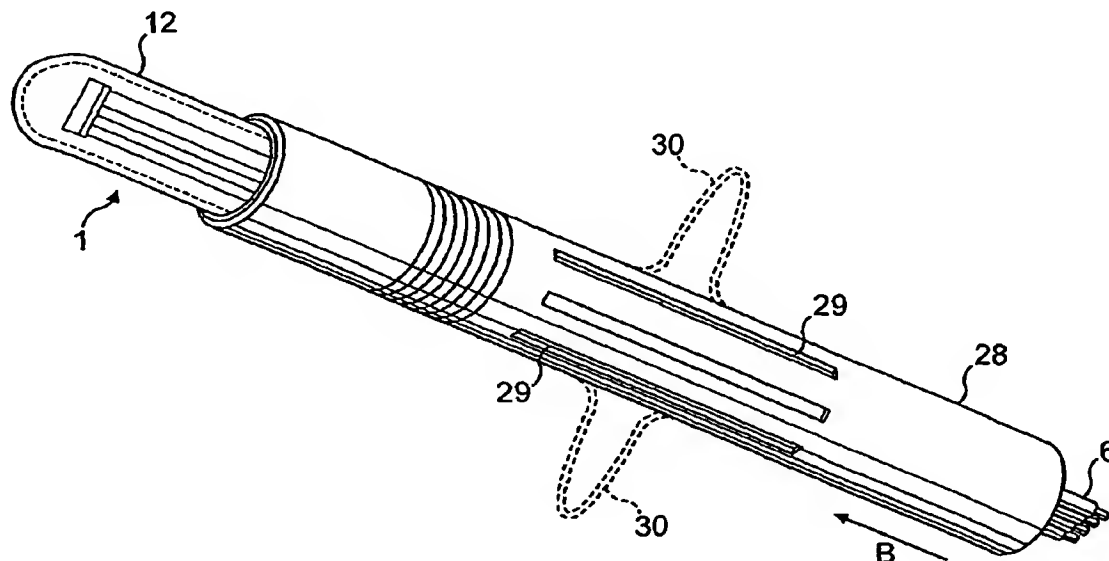
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: **SENSOR**



(57) Abstract: A physiological sensing device comprises an electrical sensor (4) for insertion into the tissue of a live animal and which measures the partial pressure of carbon dioxide in the animal tissue. The device also includes an electrical cable (6) connected electrically at its distal end to the sensor (4). The cable (6) is surrounded by a sheath (28). The sheath (28) has several flexible portions (30) separated by longitudinal slits (29). Movement of the proximal end of the sheath (28) towards its distal end shortens the distance between the ends of the flexible portions (30) and causes them to bow outwardly. The sensor (4) can be retained in animal tissue by the bowed flexible portions (30).

WO 2005/039405 A2

**WO 2005/039405 A2**



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*